

AUTHOR: Kharkevich, A.D. SOV/106-58-6-8/13
TITLE: Cross-bar Nr 5 Type of Automatic Telephone Exchange Co-
ordinate System (Koordinatnaya sistema ats tipa
krossbar Nr 5)
PERIODICAL: Elektrosvyaz', 1958, Nr 6, pp 53 - 59 (USSR)
ABSTRACT: This article is composed from material published in
foreign articles. After a brief reference to Swedish, Belgian
and French experience of cross-bar type exchange working, the
author concentrates on American reports on the cross-bar type
5. General information on its introduction, application and
advantages is first given, followed by a description of the
principles of the system. There are 5 figures and 9 references,
mainly Soviet translations of foreign articles.
SUBMITTED: December 31, 1957
Card 1/1 1. Telephone communication systems--Equipment

KHARKEVICH, A.D.; ROGINSKIY, V.N.; OPOL'SKAYA, Ye.K.; LAZAREV, V.O.;
SHAPIRO, S.B.; GORYACHIK, V.A.; PARAFONOV, L.S., otv.red.;
BALAKIREV, A.Y., red.; KARABILOVA, S.F., tekhn.red.

[Crossbar telephone substation; information collection]
Koordinatnaya telefonnaya podstantsiya; informatsionnyi
sbornik. Moskva, Gos.izd-vo lit-ry po voprosam sviazi i
radio, 1959. 87 p.
(Telephone, Automatic) (MIRA 13:1)

KHARKEVICH, A. D.

6(0)

PHASE I BOOK EXPLOITATION SOV/2793

Akademiya nauk SSSR. Laboratoriya sistem peredachi informatsii

Problemy peredachi informatsii. vyp. 3: Koordinatnyye sistemy ATS (Problems of Information Transfer. Nr 3: Crossbar Systems) Moscow, Izd-vo AN SSSR, 1959. 147 p. 2,000 copies printed.

Ed. of Publishing House: K. I. Grigorash; Tech. Ed.: T. V. Polyakova;
Editorial Board: A. A. Kharkevich (Resp. Ed.), V. N. Kuznetsov, I. A. Ovseyevich, V. N. Roginskiy (Resp. Ed. of this Number), and V. G. Solomonov (Deputy Resp. Ed.).

PURPOSE: This collection of articles may be useful to engineers engaged in the design of crossbar automatic telephone systems.

COVERAGE: The authors discuss the principle of operation of crossbar automatic telephone systems and their components. They discuss methods of switching and using crossbar connectors in selector units and present block diagrams of

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Problems of Information Transfer (Cont.)

SOV/2793

individual units and of the entire automatic telephone system. They also explain the principle of constructing master-switch circuits and present methods of calculating losses in systems. Articles 1 and 3 were presented at the conference of the Wire Communication Section of NTOF [1] E imeni A. S. Popov on July 15, 1956. Articles 2, 4 and 5 were presented at the Joint Session of the Laboratory and Chair of Telephony of MEIS on September 21, 1956, December 11, 1957, and November 23, 1956, respectively. No personalities are mentioned. References appear at the end of each article.

TABLE OF CONTENTS:

Foreword

3

Kharkevich, A. D. Development of Crossbar Automatic Telephone Systems

5

The author presents a general discussion of a number of crossbar automatic telephone systems developed in various West European countries and describes the advantages of such systems. There are 14 references: 6 Soviet (including 1 translation), 7 English and 1 German.

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Problems of Information Transfer (Cont.)

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Kharkevich, A. D. Switching Possibilities of Crossbar Connectors and Their Use in Selector Units of Automatic Telephone Systems

15

The author discusses the switching characteristics of a crossbar connector and describes methods of using it in telephone circuits. He also presents examples explaining the construction of selector units with crossbar connectors. There are 10 references: 9 Soviet and 1 English.

Kharkevich, A. D. Block Diagrams of Individual Units and of the Entire Crossbar Automatic Telephone System

54

The author discusses the operation of various elements and units of a crossbar automatic telephone system and presents methods of constructing their block diagrams. He also describes the operation of ARF-10, ARF-50 and No.5 crossbar types of systems and presents their block diagrams. There are 6 references, all Soviet.

Lazarev, V.G., G. G. Savvin and L. I. Smirnova. Basic Principles of Constructing Master-switch Circuits of Crossbar Automatic Telephone systems.

78

The authors discuss the principles of constructing master-switch circuits for group selector and subscriber selector units of crossbar auto-

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Problems of Information Transfer (Cont.)

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matic telephone systems. A discussion of a master-switch circuit for a subscriber selector unit is presented only for the case of transposed connections of subscriber lines. There are 18 references: 11 Soviet and 7 English.

Kharkevich, A. D. - Calculation of the Number of Connecting Devices
In a Crossbar Automatic Telephone System.

115

The author discusses methods of calculating losses in a multistage system by analyzing a two-stage circuit. He also derives formulas for calculating losses and presents numerical examples. There are 12 references: 7 Soviet and 5 English.

AVAILABLE: Library of Congress

Card 4/4

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12/15/59

KHARKEVICH, A. D.

6(7)

PHASE I BOOK EXPLOITATION GOV/3016

. Akademiya nauk SSSR. Laboratoriya sistem peredachi informatsii

Problemy peredachi informatsii, vyp. 1: Postroyeniye skhem i setey svyazi. (Problems of Information Transmission. Nr. 1: Design of Communications Circuits and Networks) Moscow, Izd-vo AN SSSR, 1959. 163 p. Errata slip inserted. 2,000 copies printed.

Ed. of Publishing House: G. Ye. Pevzner; Tech. Ed.: A. P. Guseva; Editorial Board: A. A. Kharkevich (Resp. Ed.), V. N. Kuznetsov, I. A. Ovseyevich, V. N. Roginskiy (Resp. Ed. of this Issue), V. G. Solomonov (Deputy Resp. Ed.)

PURPOSE: This collection of articles is intended for specialists in communications theory.

COVERAGE: This collection of articles by scientists at the Laboratory of Systems for the Transmission of Information, Academy of Sciences, USSR, is a continuation of a series of collections published earlier under the title "Sbornik nauchnykh rabot po provodnoy svyazi" ("Collection of Scientific Works on Wire Card 1/8

Problems of Information (Cont.)

SOV/3016

"Communications") References are given after each article. A bibliography on automatic telephone systems (ATS) with crossbar switches is given in the appendix. This bibliography is considered to be of special interest in connection with the introduction in the USSR of the crossbar system.

TABLE OF CONTENTS:

Foreword

3

Roginskiy, V. N. Graphical Method of Designing Multipolar Contact Circuits

5

This paper was presented at a session of the Scientific and Technical Society of Radio Engineering and Electrotechnics imeni A. S. Popov on May 10, 1956. The author discusses a new method of synthesizing relay circuits providing series-parallel and bridge-contact circuits, and a method for selecting circuits with a minimum number of contacts and with automatic accounting for neutral and

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Problems of Information (Cont.)

SCOV/3016

unutilized states. According to the authors, this method in certain cases results in a more efficient use of circuits than is possible by analytic methods. It also makes possible mechanization of the synthesis of relay systems. There are 9 references, all Soviet.

Arkhangel'skaya, A. A., V. G. Lazarev, and V. N. Roginskyi.

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Apparatus for the Synthesis of Contact Circuits
This paper was presented at the Laboratory Seminar on October 5, 1956. The authors present basic principles of designing an apparatus for the synthesis of contact (1,k)-terminal networks. This apparatus was developed at the Laboratory on the basis of the graphical method. There are 9 references: 8 Soviet and 1 English.

Lazarev, V. G. Methods of Determining the Number of Relays Necessary for Designing a Relay-Contact Circuit According to Given Operating Conditions

53

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APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000721820012-8

Problems of Information (Cont.)

SCOV/3016

This paper was presented at a session of the Scientific and Technical Society of Radio Engineering and Electrotelecommunications imeni A. S. Popov on May 10, 1956. In this paper, principles are outlined for selecting the minimum number of relays necessary for the synthesis of relay-contact circuits. The minimum number of receiver components and methods of selecting the minimum number of receiving relays are also presented. The author considers the problem of determining the common minimum of receiving and intermediate relays necessary for designing circuits according to given conditions. There are 8 references: 6 Soviet and 2 English.

Kharkevich, A. D. Selecting a Grouping Lay-out for a Telephone System Substation

72

This paper was presented at a joint session of the Laboratory Seminar and Department of Telephony at MEIS on June 24, 1953. The author investigated grouping schemes useful in designing small-capacity telephone

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Problems of Information (Cont.)

SOV/3016

PoVarov, G. N. Structural Theory of Communications Networks 126
This paper was presented at a joint session of the
Laboratory Seminar and of the Telephony at MEIS
on January 6, 1956. The fundamentals of mathematical
analysis of communications networks using matrix algebra
are presented. Problems in the structural theory of
communications networks are discussed: calculation of
the number of tandem trunks between any two stations in
the network, determination of the length of the longest
and shortest tandem trunk, of the coherence and compact-
ness of the network and of some other parameters. The
relationship between the structural theory of communi-
cations networks, graphical theory and theory of relay-
contact circuits is discussed. There are 17 references:
11 Soviet (including translation), 4 English and 2
German.

Kharkevich, A. D. Bibliography on the Swedish Crossbar
System

141

Card 7/8

AUTHOR: Kharkevich, A.D.

SOV/106-59-2-7/11

TITLE: An Approximate Method for Calculation of the Number of Switches in a Co-ordinate-system, Automatic Telephone Exchange (Priblizhennyj metod rascheta chisla soyedinitel'-nykh ustroystv v ATS koordinatnoy sistemy)

PERIODICAL: Elektrosvyaz', 1959, Nr 2, pp 55 - 63 (USSR)

ABSTRACT: Methods used for ascertaining the quantity of switching apparatus for decade-step system automatic telephone exchanges cannot be used directly for co-ordinate systems. Because the basic calculation methods already developed (Refs 1 - 3) are complicated, the author derives a simpler, approximate method. The method is based on the concept of changing availability of the switching apparatus in a two-stage system. The simple, two-stage system considered is shown in Figure 1. The following parameters characterise such a system:

n - the number of inputs to each first-stage switch,
m - the number of outlets from each first-stage switch,
k - the number of first-stage switches,
l - the number of outlets from each second-stage switch.

Card1/5 In Figure 1, q denotes the number of outlets in each

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An Approximate Method for Calculation of the Number of Switches
in a Co-ordinate-system, Automatic Telephone Exchange

second-stage switch which are taken to succeeding-stage
apparatus, belonging to one direction.

In the system any one of the outlets q is available only
when none of the connection paths between the stages is
engaged. In this case, the availability will be maximum:

$$D_{\max} = mq .$$

When i paths from the first to the second stage are
engaged, then the availability D_i will be:

$$D_i = (m - i)q$$

where i changes within the limits $0 \leq i \leq r$, and r
equals:

$$r = m \text{ when } m/n < 1$$

$$r = (n - 1) \text{ when } m/n \geq 1 .$$

Minimum availability for the last call reaching any
first-stage switch will occur when $i = r$:

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An Approximate Method for Calculation of the Number of Switches
in a Co-ordinate-system, Automatic Telephone Exchange

$$D_{\min} = (m - r)q = \begin{cases} 0 & \text{when } m/n < 1 \\ (m - n + 1)q & \text{when } m/n \geq 1 \end{cases}$$

Thus, D_i changes in the limits:

$$D_{\min} \leq D_i \leq D_{\max} \quad (1)$$

Each value of D_i occurs with a probability w_i , where w_i is the probability of i out of the m paths between stages A and B being engaged.

The number of switches required in a group is evaluated as follows:

- 1) The effective availability D_e is found first by using Eq (16):

$$D_e = D_{\min} + \theta(\bar{D} - D_{\min}) \quad (16)$$

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An Approximate Method for Calculation of the Number of Switches
in a Co-ordinate-system, Automatic Telephone Exchange

The value of θ depends on the relation between the grade of service and the availability and also on the probability distribution w_i . From British Post Office formulae, its value lies in the limits 0.65 - 0.75 and it can be chosen so as to partially correct for errors in the limited availability formula.

$$\bar{D} \approx q(m - Y_m) \quad (11)$$

where Y_m is the traffic passed by the m inter-stage paths and \bar{D} is the mathematical expectation of availability.

2) After determination of the effective availability, the number of connecting apparatus required to handle the traffic applied to it with a given grade of service P is determined by Eq (17):

$$V = \alpha Y + \beta \quad (17)$$

the coefficients α and β being obtained from Table 1.
Two numerical examples are given.

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An Approximate Method for Calculation of the Number of Switches
in a Co-ordinate-system, Automatic Telephone Exchange

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There are 4 figures, 2 tables and 7 references, 3 of which
are English and 3 Soviet and 1 German.

SUBMITTED: May 24, 1958

Card 5/5

KHARKEVICH, A.D.

Development of the crossbar automatic telephone system.
Probl.pered.inform. no.3:5-14 '59. (MIRA 13:1)
(Telephone, Automatic)

KHARKEVICH, A.D.

Switching possibilities for a crossbar connector and its use
in the erection of searching blocks for automatic telephone
exchanges. Probl.pered.inform. no.3:15-53 '59.

(Telephone, Automatic)

(MIRA 13:1)

KHARKEVICH, A.D.

Skeleton and group channeling diagrams of crossbar automatic telephone exchanges. Probl.pered.inform. no.3:54-77 '59.
(MIRA 13:1)
(Telephone, Automatic)

SAVVIN, G.G.; KHARKEVICH, A.D.

Selection of group formation networks with consideration of the
intricacy of control systems. Probl. pered. inform. no. 4:5-18
'59. (MIRA 13:7)

(Telephone, Automatic)

MELIK-GAYNAZOVА, Е.І., KHARKEVICH, A.D.

Determination of the optimum coefficient of expansion in a two-stage switching circuit which is used in link selecting operation.
Probl. pered. inform. no. 4:27-34 '59. (MIREA 13:7)
(Telephone, Automatic) (Switching theory)

ROYTENBERG, Yefim Mikhaylovich; KHARKEVICH, Anatoliy Dem'yanovich;
MATYUSH, B.I., otv.red.; RYAZANTSEVA, M.M., red.; KARABILOVA,
S.P., tekhn.red.

[Crossbar trunk and its use in designing selection units on
automatic telephone exchanges] Koordinatnyi soedinitel' i ego
ispol'zovanie pri postroenii blokov iskaniiia na ATS. Moskva,
Gos.izd-vo lit-ry po voprosam aviazi i radio, 1960. 47 p.

(MIRA 13:10)

(Telephone, Automatic)

MARKHAY, Ye.V.; ROGINSKIY, V.N.; KHARKEVICH, A.D.. Prinimal uchastiye
ZBAR, N.R., inch.. METEL'SKIY, G.B., otv.red.; RYAZANTSEVA,
M.M., red.; SHEFER, G.I., tekhn.red.

[Automatic telephony] Avtomaticheskaya telefonika. Moskva,
Gos.izd-vo lit-ry po voprosam sviazi i radio, 1960. 535 p.
(Telephone, Automatic) (MIRA 13:?)

"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000721820012-8

MELIK-GAYKAOVA, E.I.; KHARKEVICH, A.D.

Study of the structural parameters of group hunting units.
Probl.pered.inform. no.6:57-63 '60. (MIRA 13:11)
(Telephone, Automatic)

APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000721820012-8"

KHANKEVICH, A.D.

Division of the vertical unit of a crossbar connector. Problemed.
inform. no.6:64-70 '60. (MIRA 13;11)
(Switching theory)

KHARKEVICH, A.D.; SHVAL'B, V.P.

Analysis of switching circuits corresponding to nonparallel-sequential
graphs. Probl.pered.inform. no.9:70-78 '61. (MIR 14:7)
(Switching theory)

IVANITSKIY, V.I.; KHARKEVICH, A.D.

Speech channel of an electronic automatic telephone exchange with
pulse-width conversion. Probl.pered.inform. no.9;160-168 '61.

(MIRA 14:7)

(Telephone, Automatic)

9,3275 (1161)
6,7000

-33509
S/562/61/000/009/009/012
D201/D302

AUTHORS: Ivanitskiy, V. I. and Kharkevich, A. D.

TITLE: Small capacity electronic telephone exchange with pulse transformation of speech currents /ЭАТС ИПРТ-20 (EATS IPRT-20)

SOURCE: Akademiya nauk SSSR. Laboratoriya sistem peredachi informatsii. Problemy peredachi informatsii. No. 9, 1961. Elementy sistem avtomatiki, 182-192

TEXT: In the present article the authors describe the design of a fully electronic automatic telephone exchange for 20 subscribers with pulse width modulation of the transformed speech currents. The exchange is designed for four overhead wire lines and 2-digit numbers. The principle of design of the exchange is given, together with its bloc-diagram, simplified bloc-diagram, logic circuit and detailed description of some of its circuit operation. The application of pulse-width speech current modulation makes it possible to incorporate certain specific circuits of automatic control. The

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D201/D302

Small capacity electronic ...

attenuation properties are thus good and are obtained by means of comparatively simple switching arrangements. The pulse modulation system of the exchange does not require any transformers or chokes inherent in electronic telephone exchanges without modulation, so that its dimensions and weight are smaller. The basic circuits of the described electronic exchange are designed so that the storage components are taken out from the speech signal commutator which results in a smaller number of triodes used. Special by-passing circuits are used to connect the subscriber units with the line units outside the speech signal commutator. The stability of operation of the exchange is thus improved. Multiple purpose units and exchange circuit components make the circuit of the exchange simpler and reduce the number of active elements. The control arrangement of the above exchange is suitable for an exchange without pulse modulation. Speech currents and the principle of design can be used for constructing large capacity exchanges; experimental testing of separate circuits and that of a prototype exchange have proved the arrangement to be stable and have shown that the principles of design of the electronic telephone exchanges described

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D201/D302

Small capacity electronic ...

have sound practical possibilities. The authors acknowledge the help of N. S. Bagrintseva, R. A. Bel'fer, I. Ye. Yershov and A.F. Leonov in the experimental part of their work. There are 5 figures and 5 Soviet-bloc references.

SUBMITTED: May 17, 1960

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Card 3/3

KHARKEVICH, Anatoliy Dem'yanovich; USHAKOV, V.A., otv. red.;
ROZHDESTVENSKAYA, V.A., red.

[Principle schematics of the basic devices for the 47
automatic telephone exchange] Printsipial'nye skhemy osnov-
nykh priborov ATC-47. Moskva, Redaktsionno-izdatel'skii ot-
del VZEIS, 1962. 39 p. (MIRA 16:12)
(Telephone stations--Equipment and supplies)

BASHARIN, Gelyi Pavlovich; KHAREVICH, A.D., otv. red.; BERKGAUT, V.G.,
red. izd-va; YEPIFANOVA, L.V., tekhn. red.

[Tables of probabilities and root-mean-square deviations of
losses on a fully accessible pencil of lines] Tablitsy veroiat-
nostei i srednikh kvadraticeskikh otklonenii poter' na polno-
dostupnom puchke lini. Moskva, Izd-vo Akad. nauk SSSR, 1962.
127 p.

(MIRA 15:9)

(Queuing theory)

KOFP, Mark Filippovich; KHARKEVICH, Anatoliy Dem'yanovich; SHILOV,
Oleg Semenovich; SAMOYLENKO, Yevgeniy Andrianovich;
MARKOVICH, Aleksandr Yakovlevich; RESHENNIKOV, N.V.,
retsenzent; METEL'SKIY, G.B., otv. red.; OBRAZTSOVA, Ye.A.,
red.

[Textbook on telephony] Zadachnik po telefonii. [By] M.F.Kopp
i dr. Moskva, Sviaz', 1965. 279 p. (MIR 18:3)

"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000721820012-8

APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000721820012-8"

KHREKOVICH, D. A.

"The Effect of Ganglionic and Narcotic Substances on the Transmission of Stimulations to the Upper Cervical Ganglion During Irritations of the Pre-ganglionic Trunk at Various Frequencies." Cand Med Sci, First Leningrad Medical Inst, Leningrad, 1953. (RZhBiol, No 7, Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)
SO: Sum. No. 556, 24 Jun 55

USSR/Bioicry - histology

FD-3390

Card 1/1 Pub. 17-22/22

Author : Krylova, N. V., Kharkevich, D. A.

Title : Method of preparing anatomic x-ray specimens

[4c]

Periodical : Byul. eksp. biol. i med. 8, 79-81, Aug 1955

Abstract : Authors report on the contrast methods by which Russian workers have made x-ray photographs and they list some of the materials used for this purpose. Authors decided to try as contrast material solutions of tempora (decorative) and some other similar materials such as "sevanit" which furnish enough contrast. The particles are highly dispersed and therefore penetrate small vessels easily. They do not enter the capillaries and this enables the student to differentiate between the venous and arterial systems. In water it dissolves quickly into a homogenous mass which can be filtered through gauze. While injecting it, it is best to keep it stirred. No further processing and fixation of the preparation is needed. Soon after injection the mass solidifies. 6 references, 6 USSR, 5 since 1940.
Micrographs.

Institution : Chair of Normal Anatomy (Head: Prof M. G. Prives) and Chair of Pharmacology (Head: Active Memb Acad Med Sci USSR Prof V. V. Zakusov). Leningrad Medical Institute imeni I. P. Pavlov

Submitted : 16 Dec 1954

Документация
VAL'DMAN, A.V.; IVANOVA, Z.I.; KHARKEVICH, D.A.

Effect of diplacin on synapses in various segments of the reflex arch. Farm.i toks. 18 no.2:3-11 Mr-Ap '55. (MLRA 8:?)

1. Kafedra farmakologii (zav. -deystvitel'nyy chlen AMN SSSR prof. V.V.Zakusov) I Leningradskogo meditsinskogo instituta imeni I.P. Pavlova.

(MUSCLE RELAXANTS, effects,
diplacin on synapses in various segments of reflex arch)
(NERVOUS SYSTEM, effect of drugs on,
musc. relaxant diplacin, on synapses in various segments
in reflex arch)

ZAKUSOV, V.V., professor; IVANOVA, Z.N.; KHARKEVICH, D.A. (Leningrad)

Ganglionic effect of certain hypnotics. Klin. med. 33 no.9:3-5 S
'55. (MLRA 9:2)

1. Iz kafedry farmakologii (zav.-deyatel'nyy chlen AMN SSSR prof.
V.V. Zakusov) i Leningradskogo meditsinskogo instituta imeni I.P.
Pavlova.

(HYPNOTICS AND SEDATIVES, effects
ganglion-blocking)

USSR/Pharmacology. Pharmacognosy. Toxicology -
Roentgen Counteracting Drugs.

T-6

Abs Jour : Referat Zhur - Biologiya, No 16, 1957, 71753
Author : Kharkevich, D.A., Krylova, N.B., Stepansov, B.I.
Inst :
Title : The Use of New Pharmacological Procedures in Arteriography.
Orig Pub : Biul. ekspeim. biol. i meditsiny, 1955, 40, No 11, 77-79

Abstract : It was demonstrated by tests on an isolated rabbit ear that the vascular constriction due to Sergosine (I) administration is largely connected with its peripheral effect. Rabbits and cats under ether anaesthesia were injected with 3-4 ml of a mixture of I with a 1-3% solution of papaverine into the aorta. Good arteriograms were obtained. The use of Na-nitrite (0.5 ml of 10% solution) was less effective. Histamine cannot be used in arteriography, because it raises vascular permeability and produces a diffusion of the contrast material into the surrounding tissues. Cardiotrast (50% solution) produces a slight spasm of the vessels.
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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721820012-8

USSR/Pharmacology. Toxicology. Analgesics

U-3

Abs' Jour : Ref Zhur-Biol., No 7, 1958, 32871
Author : Kharkevich D. A.
Inst : Not given
Title : On the Combined Action of Omnopon and Extract of Belladonna.
Orig Pub : Farmakol. i toksikologiya, 1957, 20, No 2, 49-51

Abstract : The experiments were conducted on mice. The animals were mechanically irritated with the help of 3 gradual clampings. The drugs were administered subcutaneously. Extract of belladonna (1; 5 to 10 γ/g) somewhat increased pain sensitivity. Omnopon (II; in a dose of 10γ/g) produced an expressed analgesic effect which lasted from 1.5 to 2 hours. The analgesic effect of II was considerably lower and of shorter duration when

Card 1/2

Abs Jour : Ref Zhur-Biol., No 7, 1958, 32871

KHARKOVICH, D.A.
KHARKOVICH, D.A.; TISHCHENKO, M.I.

Effect of novocaine on pessimal inhibition in various links of the reflex arch [with summary in English]. Biul.eksp.biol. i med. 44 no.10:72-77 O '57. (MIRA 11:2)

1. Iz laboratorii chastnoy farmakologii Insituta farmakologii i khimioterapii AMN SSSR i kafedry farmakologii Leningradkogo meditsinskogo instituta imeni akademika I.P.Pavlova (zav. laboratoriyei i kafedroy - deystvitel'nyy chlen AMN SSSR V.V.Zakusov. Predstavlena deystvitel'nym chlenom AMN SSSR V.V.Zakusovym.

(PROCAINE, effects,

pessimum inhib. in various parts of reflex arch (Rus))
(REFLEX,

pessimum inhib. in various parts of arch after admin.
of procaine (Rus))

KHARKEVICH, D.A.

Effect of cholinolytic drugs on the functional lability of the superior cervical ganglia [with summary in English]. Biul.eksp.biol. i med. 44 no.12:70-76 D '57. (MIRA 11:4)

1. Iz laboratorii chastnoy farmakologii (zav. - deystvitel'nyy chlen AMN SSSR V.V.Zakusov) Instituta farmakologii i khimioterapii (dir. - deystvitel'nyy chlen AMN SSSR V.V.Zakusov) AMN SSSR, Moskva. Predstavlena deystvitel'nym chlenom AMN SSSR V.V.Zakusovym)
(GANGLIA, AUTONOMIC, effect of drugs on,
superior cervical, ganglion blocking agents, on lability)
(AUTONOMIC DRUGS, effects,
ganglion blocking agents on superior cervical ganglia
lability (Rus))

USSR/Pharmacology. Toxicology. Tranquilizers. v

Abs Jour: Ref. Zhur - Biol., No 22, 1958, 102775

Author : Vikhlyayev, Yu. I.; Kharkevich, D. A.

Inst : LAKRATORIYA CHASNYY FARMACEVICH INSTITUTA FARMAKOLOGII I RADIOTERAPII
AMN SSSR.

Title : On the Influence of Aminazine and Mepazine on
the Ability of Curare and Curare-like Remedies
to Block Neuromuscular Transmission.

Orig Pub: Farmakol. i toksikologiya, 1958, 21, No.1, 44-49

Abstract: In intravenous introduction, neither aminazine
(I; 5-10 mg/kg) nor mepazine (II; 5-10 mg/kg) do
not lower the amplitude of muscular contractions
in decerebrated cats. The introduction of I or
II 30-120 min. after injection of muscle relax-
ants of the competitive-action type (curare 3-
5 mg/kg, d-tubocurarine 80-120 gamma/kg or

Card 1/2

2

Card 2/2

USSR / Pharmacology, Toxicology. Hypothermic Drugs.

U-1

Abs Jour : Referat Zh.-Biol., No 1, 1958, No 3316

Abstract : quently when large doses of aminazine (10-20 mg/kg) were
administered. The absence of a reaction on the part of the
nictitating membrane while the amplitude of the biocurrents
remained unchanged attested to the peripheral sympathetic
action of amazine. Mepazine (pacatal) in a dose of 5-10
mg/kg failed to alter the biopotentials of the postganglionic
fibers. The reaction of the nictitating membrane following
the administration of mepazine decreased to a lesser extent
than after amazine. The author concludes that amazine and
mepazine do not possess ganglioplegic properties.

KHARKEVICH, D.A.

Ganglion-blocking activity of certain nicotine derivatives. Farm. i toks
21 no. 6:28-30 N-D '58.
(MIRA 12:1)

1. Laboratoriya chastnoy farmakologii (zav. - deystvitel'nyy chlen AMN
SSSR prof. V.V. Zalusov) Instituta farmakologii i khimioterapii AMN SSSR.
(NICOTINE, rel. cpda.

ganglion blocking activity of certain deriv. (Rus))
(AUTONOMIC DRUGS,
same)

KHABKEVICH, D.A.

Effect of ganglion-blocking agents, barbamyl, and novocaine on the development of posttetanic relief in the sympathetic ganglia. Farm. i toks. 22 no. 6:493-499 N-D '59. (MIRA 13:5)

1. Laboratoriya chastnoy farmakologii Instituta farmakologii i khimioterapii AMN SSSR i kafedra farmakologii I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova (zav. laboratoriyei i kafedroy - deystvitel'nyy chlen AMN SSSR prof. V.V. Zakusov).

(AUTONOMIC DRUGS)
(AMOBARBITAL)
(NOVOCAINE)
(NERVOUS SYSTEM, SYMPATHETIC)

KHARKEVICH, D. A., Doc Med Sci -- (diss) "Regularities in the structure and action of substances that block transmission of stimulus in the vegetative ganglia." Moscow, 1960. 16 pp; (First Leningrad Medical Inst im Academician I. P. Pavlov); 300 copies; price not given; list of author's works on pp 15-16 (19 entries); (KL, 52-60, 122)

KHARKEVICH, D.A.; KITAYEV, L.A.

Role of the cardiocardiac reflex in the mechanism of action
of strophanthin K. Farm.i toks. 23 no.1:20-24 Ja-F '60.

(MIRA 14:3)

1. Laboratoriya chastnoy farmakologii Instituta farmakologii i
khimoterapii AMN SSSR i kafedra farmakologii I Moskovskogo ordena
Lenina meditsinskogo instituta imeni I.M.Sechenova (zav.laboratoriye
i kafedroy deystvit'nyy chlen AMN SSSR prof.V.V.Zakusov).
(STROPHANTHIN) (HEART)

KHARKEVICH, D.A.

Influence of ganglion-blocking agents on impulse aftereffects.
Biul. eksp. biol. i med. 49 no. 6:62-66 Je '60. (MIRA 13:8)

1. Iz laboratorii chastnoy farmakologii Instituta farmakologii
i khimioterapii AMN SSSR i kafedry farmakologii I Moskovskogo
ordena Lenina meditsinskogo instituta im. I.M. Sechenova (zav.
laboratoriyye i kafedroy - deystv. Chlen AMN SSSR V.V.
Zakusov). Predstavlena deystv. chlenom AMN SSSR V.V. Zakusovym.
(AUTONOMIC DRUGS) (NERVOUS SYSTEM, SYMPATHETIC)

KHARKEVICH, D.A.

Effect of ganglionic-blocking agents on the conduction rate of nervous stimuli in the sympathetic ganglia. Biul. eksp. biol. i med. 49 no.3:61-64 Mr '60. (MIRA 14:5)

1. Iz laboratorii chastnoy farmakologii Instituta farmakologii i khimioterapii AMN SSSR i kafedry farmakologii I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.Schenova (zav. laboratoriyye i kafedroy - deystvitel'nyy chlen AMN SSSR V.V. Zakusov). Predstavlena deystvitel'nym chlenom AMN SSSR V.V.Zakusovym. (AUTONOMIC DRUGS) (NERVOUS SYSTEM, AUTOMATIC)

VYSOTSKAYA, N.B.; IL'INA, Ye.I.; KHARKEVICH, D.A.

Effect of ganglion-blocking agents on the activity of some enzyme systems and the concentration of sulfhydryl groups in the cervical ganglion. Fiziol. zhur. SSSR 46 no. 9:1076-1082 S '60.
(MIRA 13:10)

1. From the Institute of Pharmacology and Chemotherapy and the Chair of Pharmacology, Sechenov Medical Institute , Moscow.
(AUTONOMIC DRUGS) (ENZYMES) (MERCAPTO GROUP)

KHARKEVICH, D.A.

Hypotensive activity of nicotine and carboline derivatives and of some aliphatic and alicyclic amines. Uch.zap.Inst.farm.i khimioter. AMN SSSR no.2:133-164 '60. (MIRA 15:10)

1. Laboratoriya chastnoy farmakologii (zav. - deystv. chlen AMN SSSR, prof. V.V.Zakusov).
(NICOTINE) (AMINES—PHYSIOLOGICAL EFFECT) (PYRIDOINDOLE)

KHARKEVICH, D.A.; KRAVCHUK, L.A.

Pharmacology of a new curariform drug truxillonium. Farm. toks.
24 no.3:318-324 My-Je '61. (MIRA 15:1)

1. Laboratoriya chastnoy farmakologii (zav. - deystvitel'nyy chlen
AMN SSSR prof. V.V.Zakusov) Instituta farmakologii i khimioterapii
AMN SSSR.
(MUSCLE RELAXANTS) (TRUXILLIC ACID--PHYSIOLOGICAL EFFECT)

KHARKEVICH, D.A.

Ganglion-blocking activity of secondary and tertiary aliphatic
and alicyclic amines. Farm. i toks. 25 no.2:151-160 Mr-Ap '62.
(MIRA 15:6)

1. Kafedra farmakologii I Moskovskogo meditsinskogo instituta
imeni I.M. Sechenova i laboratoriya chastnoy farmakologii (zav. -
deystvitel'nyy chlen AMN SSSR prof. V.V. Zakusov) Instituta
farmakologii i khimioterapii AMN SSSR.

(AUTONOMIC DRUGS)
(AMINES)

KHARKEVICH, Dmitriy Aleksandrovich; SHARAPOV, I.N., red.; KUZ'MINA,
N.S., tekhn. red.

[Ganglionic agents]Ganglionarnye sredstva. Moskva, Medgiz,
1962. 293 p. (MIRA 15:10)

(AUTONOMIC DRUGS)

KHARKEVICH, D.A.

Effect of ganglionic blocking agents on the synaptic conduction
of nervous excitation in the sympathetic ganglia. Biul.eksp.biol.i
med. 54 no.7:38-42 J1 '62. (MIRA 15:11)

1. Iz kafedry farmakologii I Moskovskogo ordena Lenina meditsinskogo
instituta imeni I.M.Sechenova i laboratorii chastnoy farmakologii
Instituta farmakologii i khimioterapii AMN SSSR (zav. kafedroy i
laboratoriyy - deystvitel'nyy chlen AMN SSSR prof. V.V.Zakusov),
Moskva. Predstavlena deystvitel'nym chlenom AMN SSSR V.V.Zakusovym.
(AUTONOMIC DRUGS) (NERVOUS SYSTEM, SYMPATHETIC)

KHARKEVICH, D.A.

Mechanism of the ganglion-blocking action of novocaine.
Fiziol zhur. 48 no. 8: 960-966 Ag'62. (MIRA 16:6)

1. From the Department of Pharmacology, I.M.Sechenov,
Medical Institute and Laboratory of Special Pharmacology of
the Institute of Pharmacology and Chemotherapy, U.S.S.R.
Academy of Medical Sciences, Moscow.
(NOVOCAIN) (NERVOUS SYSTEM, AUTONOMIC)
(ELECTROPHYSIOLOGY)

KHARKEVICH, D.A.

Ganglioblocking substances in the series of bis-quaternary salts of dialkylaminoalkyl esters of N-methyl- -pyrrolidine carboxylic acid. Farm. i toks. 26 no.2:172-179 Mr-Ap '63.

(MIRA 17:8)

1. Laboratoriya chastnoy farmakologii (zav. - deystvitel'nyy chlen AMN SSSR, prof. V.V. Zakusov) Instituta farmakologii i khimioterapii AMN SSSR i kafedra farmakologii (zav. - deystvitel'nyy chlen AMN SSSR prof. V.V. Zakusov) I Moskovskogo ordena Lenina meditsinskogo instituta imeni Sechenova.

ARENDRUK, A.P.; KRAVCHUK, L.A.; SKOLDINOV, A.P.; KHARKEVICH, D.A.

Chemical and pharmacological research in the series of derivatives of cyclobutanedicarboxylic acids. Uch.zap. Inst. farm. i khimioter. AMN SSSR 3:138-157'63. (MIRA 16:9)

1. Department of Pharmacology (Head - Prof. V.V.Zakusov, Member of the U.S.S.R. Academy of Medical Sciences) and Department of Organic Synthesis (Head - Candidate of Chemical Sciences A.P.Skoldinov) of the Institute of Pharmacology and Chemotherapy of the U.S.S.R. Academy of Medical Sciences.

(CURARELIKE SUBSTANCES)

KHARKEVICH, D.A.; KRAVCHUK, L.A.

Some relations between the structure and the curarelike activity
in a series of bis-quaternary derivatives of cyclobutanedicar-
boxylic acids. Farm. i toks. 26 no.6:702-707 N-D '63
(MIRA 18:2)

1. Laboratoriya chastnoy farmakologii (zav. - deystvitel'nyy
chlen AMN SSSR prof. V.V. Zakusov) Instituta farmakologii i
khimioterapii AMN SSSR i kafedra farmakologii (zav. - deystvitel'-
nyy chlen AMN SSSR prof. V.V. Zakusov) I-go Moskovskogo ordena
Lenina meditsinskogo instituta imeni I.M. Sechenova.

KHARKEVICH, D.A.

Pharmacological properties of aniracetam, a new curarelike substance.
Farm. i teks., 29 no.3795-309 Ny-Je '85.

(MIRA 18:8)

1. Laboratoriya farmakologii nervnoy sistemy (sav. - deystvitele'nyy
chlen ANN SSSR V.V.Zhukov) Institut farmakologii i klinicheskoi terapii
ANN SSSR, Moskva i Kafedra farmakologii (zav. - prof. D.A.Kharkevich)
I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.Sechenova,
Moskva.

KHARKEVICH, D. S.

USSR/Geology - Geosyncline
Classification 21 Jun 53

"Principles Governing the Classification of Geosynclinal Regions," D. S. Kharkevich

DAN SSSR, Vol 90, No 6, pp 1127-1129

Acknowledges two independent types of geosynclinal-folding regions which most conform with historical-geological facts: 1) one which, according to the substance, corresponds to the outer zone; 2) the second, the inner zone of the Pacific Ocean belt in its Asiatic section. The first type is called

269T58

the upper Yanskiy; and the second, Ural type.
Presented by Acad D. S. Belyankin (deceased)
20 Apr 53.

VITOVSAYA, I.V., [translator], GALDIN, N.Ye., [translator], KRASHENINNIKOV,
V.A., [translator], KHARKEVICH, D.S., [translator], SOKOLOV,
G.A., red.; KARASEV, A.D., red.; ROMANOVICH, G.P., red.; SMIRNOVA,
N.I., tekhn. red.

[Studies on ore deposits; collection of articles] Problemy rudnykh
mestorozhdenii; sbornik statei. S. predisl. G.A. Sokolova. Moskva,
Izd-vo inostr. lit-ry, 1958. 495 p.
(Ore deposits) (MIRA 11:11)

KHARKEVICH, D. S.

Survey of concepts of metallogenetic classification of folded regions
and platforms. Uzb. geol. zhur. no.4:48-57 '60. (MIRA 13:10)

1. Vsesoyuznyy geologicheskiy nauchno-issledovatel'skiy institut.
(Ore deposits)

TIKHOMIROV, N.I.; KOZUBOVA, L.A.; TIKHOMIROV, I.N.; KAZITSYN, Yu.V.;
KHARKEVICH, D.S.; PANOV, Ye.N.; RUDAKOVA, Zh.N.; PAVLOVA,
V.V.; ROZINOV, M.I.; ALEKSANDROV, G.V.; SHATKOV, G.A.;
SOLOV'YEV, N.S.

[Intrusive complexes of Transbaikalia] Intruzivnye kompleksy
Zabaikal'ia. [By] N.I.Tikhomirov i dr. Moskva, Izd-vo
"Nedra," 1964. 214 p.
(MIRA 17:7)

BILAY, V. I.; SILAKOVA, G. I.; KHARKEVICH, E.

Characteristics of nitrogen substances in molds following assimilation of ammonium and free nitrogen. Mikrobiol. zhur. 16 no. 1:20-26
'54 (MIR 8:4)

1. Z Institutu mikrobiologii ta Institutu biokhimii AN URSR.
(YEASTS, metabolism,
nitrogen)
(NITROGEN, metabolism,
yeasts)

Aspergillus niger, Penicillium expansum, Fusarium oxysporum, F. solani, and F. avenaceum were cultured for 7-16 days on the following glucose-mineral base; glucose 2.0, KH₂PO₄ 0.1, MgSO₄ glucose mineral base, glucose 2.0, 0.05, KCl 0.05%, and FeSO₄ 0.001 mg./l. of medium; vol. of medium per culture flask was 150 ml., incubation temp. 24-26°. For the NH₃ series NH₃OH was placed into a small tube drawn out to a small opening and inserted into the flask containing the medium. In the other series KNO₃ was used. at the rate of 2 g./l. Analytical procedures used are briefly described. The mycelia of the molds of both series of experiments contained asparagine and a higher concn. of glutamine. The mycelial content of glutamine and NH₃N increased with the age of the culture, while the asparagine decreased to the point of practical disappearance. The glutamine and NH₃N content of the culture medium also increased.

L 4920-66 ENT(1) GW
ACC NR: AP5023341

UR/0154/65/000/003/0095/0101
528.1 → 531:681.142

59
51

AUTHOR: Buzuk, V. V. (Docent, Candidate of technical sciences); Kharkevich, G. A. (Assistant)

TITLE: Calculation on the electronic digital computer of planetary characteristics of the Earth's gravitational field

SOURCE: IVUZ. Geodeziya i aerofotos"yemka, no. 3, 1965, 95-101

TOPIC TAGS: Earth planet, digital computer, electronic computer, computer application, gravitation field, earth gravity

ABSTRACT: The study of the general peculiarities of the gravitational field and the shape of the Earth is based on the use of the coefficients of the expansion of the anomalous gravitational force (or of the perturbing potential) into spherical functions. Although these coefficients allow the evaluation of the gravimetric characteristics for an arbitrary point on the Earth's surface (anomalous gravitational force, perturbing potential, altitude of the quasi-geoid, plumb-line deviation components), these calculations, by means of desk calculators, require an excessive amount of operator time (up to 12 months). Consequently, the laboratory of geodetic calculations of the TsNIIGAiK developed and tested in 1960 appropriate programs for gravimetric calculations on the Ural-1 digital computer working with a fixed decimal point. In 1964 the same laboratory completed the program for the calculation of planetary characteristics on electronic digital computers working with the floating decimal point. The overall numbering of the ten-degree sectors in the Northern and Southern Hemisphere follows the 1 to

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L 1920-66

ACC NR: AP5023341

205 scheme developed by I. D. Zhongolovich, (Trudy Instituta teoreticheskoy astronomii AN SSSR, vyp. 111, M.-L., 1952). All sectors were further grouped into two sets of nine zones. The program, the detailed description of which is given in the present paper, was used for the calculation of the plumb-line deviations at 410 points uniformly distributed over the surface of the Earth. The calculation was accomplished in 10 minutes. Orig. art. has: 16 formulas, 1 figure, and 1 table.

ASSOCIATION: Novosibirsk Institute of Engineers of Geodesy, Aerial Photography, and Cartography (Novosibirskiy institut inzhenerov geodezii, aerofotos'yemki i kartografii)

SUBMITTED: 18Dec64

ENC: 00

SUB CODE: ES, DP
44,55

NO REF SOV: 007

OTHER: 001

OC.

Card 2/2

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DATE REC'D: 23 May 64

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CIA-RDP86-00513R000721820012-8"

L 21575-66 EWT(m) DIIAP
ACC NR: AP6011489

SOURCE CODE: UR/0386/66/003/007/0268/0214

AUTHOR: Lobashov, V. M.; Nazarenko, V. A.; Sayenko, L. F.; Smotritskiy, L. M.; Kharkevich, G. I.

ORG: Physicotechnical Institute im. A. F. Ioffe, Academy of Sciences, SSSR (Fiziko-tehnicheskiy institut Akademii nauk SSSR)

TITLE: Parity nonconservation in radiative transition of Lu^{175} /9

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniya, v. 3, no. 7, 1966-268-274

TOPIC TAGS: lutecium, parity principle, Gamma transition, circular polarization, nucleon interaction, bremsstrahlung

ABSTRACT: The authors investigated the circular polarization of the γ quanta of Lu^{175} , resulting from weak nucleon-nucleon interaction, by studying the 396-kev $9/2^- \rightarrow 7/2^+$ γ transition with multipolarity $E1 + M2$, going to the ground state of the Lu^{175} nucleus. Lu^{175} was chosen because its enhancement factor ($R = 50$) can be obtained from the experimental data. The circular polarization was measured by the procedure of forward Compton scattering from magnetized iron with a resonance method of separating and storing the periodic signal. The apparatus used was described elsewhere (Pis'ma ZhETF v. 3, 76, 1966). The various extraneous factors that in-

Card 1/3

Card 2/3

APPROVED FOR RELEASE: 09/17/2001 BY [redacted] CLASSIFIED BY [redacted]

L 21575-66
ACC NR: AP6011489

2 tables.

SUB CODE: 20/ SUBM DATE: 29Jan66/ ORIG REF: 002/ OTH REF: 004

Card 3/3

UV²

LOBASHOV, V.M.; NAZARENKO, V.A.; KHARKEVICH, G.I.

The $\beta\gamma$ -polarization correlation in the β -decay of Pr¹⁴⁴ and
Eu^{152m}. IAd. fiz. 2 no.5:777-782 N '65. (MIRA 18:12)

1. Fiziko-tekhnicheskiy institut im. A.P. Ioffe AN SSSR.

Kharkevich
Yel'kin
... M.; LOBASHOV, V. M.; NAZARENKO, V. A.; SAYENKO, L. F.; KHARKEVICH, S. I.;

"Relative Measurements of the Longitudinal Polarization of Electrons in Beta Decay of P^{32} and Zn^{114} , Ho^{156} and Re^{186} ."

report submitted for All-Union Conf on Nuclear Spectroscopy, Tbilisi, 14-22 Feb 64.

FTI (Physico Technical Inst)

KHARKEVICH, G.S.

Fungus diseases of oak in the Stalin Province of the Ukrainian S.S.R., Bot.
zhur.[Ukr.] 9 no.1:53-56 '52. (MLRA 6:11)

1. Kiivs'kii derzhavnii universitet im. T.G.Shevchenka.
(Oak--Diseases and pests) (Stalin Province (Ukraine)--Fungi--
Pathogenic) (Fungi, Pathogenic--Stalin Province (Ukraine))

KHARKEVICH, G.S. [Kharkevych, H.S.]

Materials on the mycoflora of Stalino Province. Visnykh Kyiv.
un. no.2. Ser.biol. no.1:23-26 '59. (MIRA 16:4)
(DONETSK PROVINCE—FUNGI)

KHARKAVICH, G.S. [Kharkavich, H.S.]

Mycoflora of trees and shrubs in Stalino Province. Ukr.bot.
zhur. 16 no.3:72-81 '59. (MIRA 12:8)

1. Kiyevskiy universitet im. T.G.Shevchenko i Botanicheskiy
sad im. akad.Fomina.

(Stalino Province--Fungi, Phytopathogenic)

(Trees--Diseases and pests)

(Shrubs--Diseases and pests)

KHARKEVICH, I.A., inzhener.

Packing the sides of coal banks by means of an electrovibrator.
Energetik 4 no.4:18-19 Ap '56. (MLRA 9:7)
(Cool--Storage) (Electric apparatus and appliances)

SILAKOVA, A.I.; KHARKEVICH, K.G.

Distribution of glutamine between erythrocytes and blood plasma
under normal conditions and in hypoxemia. Ukr.biokhim.rzhur. 23
no.4:398-406 '51. (MLRA 9:9)

1. Institut biokhimii Akademii nauk URSR, Kiiv.
(GLUTAMINE) (BLOOD--PLASMA) (ERYTHROCYTES)
(ANOXEMIA)

KHARKEVICH, N. S.

OREDEZH RIVER - FRESH-WATER BIOLOGY

Study of the hydrobiological characteristics of the Oredezh River. Uch. zap. Len. un. no. 142, 1951.

Monthly List of Russian Accessions, Library of Congress, November 1952. UNCLASSIFIED.

KLAKEVICH, N. S.

"Developmental Conditions of Phytoplankton in Reservoirs Rich in Humic Substances." Cand Biol Sci, Karelo-Finnish Affiliate, Acad Sci USSR, Petrozavodsk, 1953. (RZhBiol, No 7, Dec 54)

Survey of Scientific and Technical Dissertations Deferred at USSR Higher Educational Institutions (12)
SO: Sum. No. 556, 24 Jun 55

"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000721820012-8

KUDRIKOVICH, N. S.

Dissertation: "Conditions of Growth of Phytoplankton in Cisterns Rich in Humic Substances." Cand Biol Sci, Karelo-Finnish State Univ, 4 May 54. (Leninskoye Znamya, Petrozavodsk, 22 Apr 54)

SO: SUM 243, 19 Oct 1954

APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000721820012-8"

KHARKEVICH, N. S.

15-57-7-9528

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 7,
p 115 (USSR)

AUTHOR: Kharkevich, N. S.

TITLE: The Hydrochemical Features of Mikkel'skoye and Kroshnozero Lakes (Gidrokhimicheskaya kharakteristika Mikkel'-skogo ozero i Kroshnozera)

PERIODICAL: Tr. Karel'sk. fil. AN SSSR, 1956, Nr 2, pp 56-88.

ABSTRACT: Mikkel'skoye and Kroshnozero Lakes, owing to the general conditions of development of the chemical content of the water and the connections between them, are very similar in chemical composition. Mineralization is low in both lakes (up to 50 mg/liter). At times of spring floods the mineralization is about 30 mg/liter. The predominant cation is Ca, the concentration of which fluctuates between 3.15 and 5.13 mg/liter during the year in both lakes. A high content of Ca is found at the end of winter. Seasonal fluctuations in the concentrations of Ca are more sharply expressed in Mikkel'skoye Lake than

Card 1/2

15-57-7-9528

The Hydrochemical Features of Mikkel'skoye and Kroshnozero (Cont.)

in Kroshnozero. The principal anions in the lakes are HCO_3^- . The concentrations of this anion in the central parts of both lakes are similar and range from 14.64 to 28.68 mg/liter HCO_3^- . N_2 is present in the lakes in ammoniacal and nitrate compounds. In summer, N_2 is present in solution almost entirely in the ammoniacal form. During the year its content fluctuates between the limits of 0.25 to 0.70 g/liter. Phosphates are also at a minimum during the summer months. The winter concentration of phosphates of both lakes ranges from 0.031 to 0.061 mg/liter. These lakes are comparatively rich in organic substances. The highest concentration of organic substance occurs during the second half of the summer. The lowest concentration is found at the end of winter and in early spring. The mineralization of organic substances that formed after summer and the accumulation of phosphates and nitrates is completed earlier in Kroshnozero than in Mikkel'skoye Lake. The final concentration of mineralization products, in particular N_2 and P, occurs at the end of winter very similarly in both lakes.

Card 2/2

K. N. Ryabicheva

KHARKEVICH, N.S.

Some data on the effect of humus substances on the development of phytoplankton. Trudy Kar.fil.AN SSSR n.13:126-141 '58.

(MIRA 13:5)

(Karelia—Phytoplankton) (Humus)

KHARKEVICH, N.S.

Materials on the small forest lakes (Jambas) of Karelia. Trudy
Kar. fil. AN SSSR no. 27:70-133 '60. (MIRA 14:3)
(Shuya Valley Lakes)

KHARKEVICH, N.S.

Flow of solutes in the rivers of the northern and northeastern
shores of lake Ladoga. Trudy Xar. fil. AN SSSR no. 36-73-93 '64.
(MIRA 12:9)

KHARKEVICH, O. G., Prof.

Functions, Discontinuous

On discontinuous functions. Nauk, zap. LPI no. 1, 1947

9. Monthly List of Russian Accessions, Library of Congress, December 195~~12~~ Uncl.

Botany - Ruthenia

Flora of the Ukrainian Transcarpathia. Bot. not. herb. 14, 1951.

9. Monthly List of Russian Accessions, Library of Congress, November 1958, 2 Uncl.

KHARKEVICH, S.S.

Some new discoveries in the flora within the limits of the
Ukrainian S.S.R. Bot.shur.[Ukr.] 9 no.2:74-78 '52. (MIRA 6:11)

1. Botanichniy sad Akademii nauk Ukrains'koj RSR.
(Ukraine--Botany) (Botany--Ukraine)

KH. KOLIEV, S. S.

"High Mountain Flora of the Northern Caucasus and the Possibility of Utilizing It Under Conditions in the Ukrainian S.R." Cand Biol Sci, Inst of Botany, Acad Sci Ukrainian SSR, Kiev, 1953. (UZhBiol, No 5, Mar 55)

So: Sum. No 670, 29 Sept 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

1. S. Kharkevich
2. USSR (600)
4. Alpine Flora
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COUNTRY	:	USSR
CATEGORY	:	Cultivated Plants - Ornamental.
REF. N.	:	Bot Biol., No. 14, 1953, No. 63612
AUTHOR	:	<u>Khar'kevich, S. S.</u>
INST.	:	-
TITLE	:	Meadow Saffron (<i>Colchicum autumnale</i> L.) in Ukrainian SSR.
CRIG. PUB.	:	Ukr. botanichnyi zh., 1956, 13, No. 3, 64-67
ABSTRACT	:	Several places of the occurrence of meadow saffron (<i>C. autumnale</i>) in Zakarpatskaya oblast' of Ukrainian SSR are described. The author considers the use of it for the verdure of open ground expedient.

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